

What is claimed is:

1. A measuring device (1) for detecting signals, particularly signals in an ignition system of an internal combustion engine, with a signal line (2) and a measuring electrode (3) connected to the signal line (2) for coupling a signal to be detected into the signal line (2), characterized by a flexible tip (4).
2. The measuring device (1) as recited in Claim 1, wherein  
the length of the tip (4) is variable.
3. The measuring device (1) as recited in one of the preceding Claims, wherein  
the tip (4) is modular in design.
4. The measuring device (1) as recited in one of the preceding Claims, wherein  
the tip (4) includes tubular segments (4'); one end of a segment (4') is pivotably inserted into another end of another segment (4').
5. The measuring device (1) as recited in one of the preceding Claims, wherein  
the tip (4) is designed as a flexible tube.
6. The measuring device (1) as recited in one of the preceding Claims, wherein  
it is preferably possible to also lock the tip (4) into position in a bent state.
7. The measuring device (1) as recited in one of the preceding Claims, wherein  
the measuring electrode (3) is designed as a capacitive primary detector.
8. The measuring device (1) as recited in one of the preceding Claims, wherein  
the measuring electrode (3) includes a cap (3a) that is preferably detachably connected

with the measuring electrode (3).

9. The measuring device (1) as recited in Claim 8,

wherein

the cap (3a) is a different color than the tip (4), and/or it includes other marking means.

10. The measuring device (1) as recited in one of the preceding Claims,

wherein

the signal line (2) includes a preferably single-core, shielded line, in particular a coaxial line or a high-voltage cable.

11. The measuring device (1) as recited in one of the preceding Claims,

wherein

the measuring electrode (3) and/or the cap (3a) and/or the tip (4) and/or a handle (5) include fastening means for fastening at least part of the measuring device (1).

12. The measuring device (1) as recited in one of the preceding Claims,

wherein

a preferably capacitive voltage divider (6) is provided.

13. The measuring device (1) as recited in one of the preceding Claims,

wherein

the tip (4) and/or the cap (3a) are illuminated.

14. The measuring device (1) as recited in one of the preceding Claims,

wherein

the illumination is supplied externally, in particular via a separate power cord or the signal line (2), and/or it has a separate power supply.